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DEC 06 2010

50. (Previously amended) A wireless network comprising:

a source device that wirelessly transmits a digital data stream as a pipeline of packets on a first frequency channel of a first frequency band;

a repeater having first and second transceivers connected via a wired link, the first transceiver wirelessly receiving each packet from the source device on the first frequency channel only during an odd time interval of a sequence of intervals, the second transceiver wirelessly transmitting each packet on the first frequency channel at a data rate of 11Mbps or greater during an even time interval, the second transceiver not transmitting during the odd time intervals.

51. (Previously presented) The wireless network of claim 50 further comprising a destination device that receives the transmitted data.

52. (Previously presented) The wireless network of claim 50 wherein the source device is coupled to a broadband data network.

53. (Previously presented) The wireless network of claim 51 wherein the network is bi-directional, such that data sent wirelessly from the destination device is received and re-transmitted to the source device by the repeater.

54. (Previously amended) The wireless network of claim 50 wherein either the first or the second transceiver operates at any given time interval.

55. (Previously presented) The wireless network of claim 50 wherein the data comprises video media content.

56. (Previously amended) The wireless network of claim 50 further comprising one or more additional repeaters, each having a pair of transceivers wired together to wirelessly receive and wirelessly re-transmit the data during alternate respective time intervals.

57. (Previously amended) The wireless network of claim 50 further comprising a second repeater having third and fourth transceivers, the third transceiver wirelessly receiving the data from the repeater on the first frequency channel, and the fourth transceiver wirelessly re-transmitting the data on a second frequency channel.

58. (Previously amended) The wireless network of claim 57 wherein the destination device is configured to wirelessly receive the data from the second repeater on the second frequency channel.

59. (Previously presented) The wireless network of claim 58 wherein the destination device comprises a media receiver connected to a display device.

60. (Previously amended) A wireless network comprising:

a source device that wirelessly transmits a digital data stream as a pipeline of packets on a first frequency channel of a first frequency band;

a plurality of repeaters arranged in a tree topology, each of the repeaters having an upstream transceiver to wirelessly receive the data stream and a downstream transmitter to wirelessly send the data stream across the wireless network, the upstream transceiver of a first repeater in the tree topology being operable to receive each packet of the data stream on a first channel during a first time interval of a sequence of intervals, and the downstream transceiver of the first repeater being operable to re-transmit the packet at a data rate of 11Mbps or

greater on the first channel to a next repeater in the tree topology during a second interval delayed by one interval from the first time interval when the packet was received, the downstream transceiver not transmitting during the first time interval, the upstream transceiver of the next repeater receiving the packet during the second time interval, the downstream transceiver of the next repeater re-transmitting the packet at the data rate of 11Mbps or greater during a third interval delayed by one interval from the second time interval when the packet was received, the downstream transceiver of the next repeater not transmitting during the second time intervals; and

a destination device that receives the packet.

61. (Previously presented) The wireless network of claim 60 wherein two or more of the repeaters are configured to receive the data from the source device on the first frequency channel.

62. (Previously amended) The wireless network of claim 60 wherein one of the plurality of repeaters re-transmits the data directly to two or more of the repeaters.

63. (Previously presented) The wireless network of claim 60 wherein the source device is coupled to a broadband data network.

64. (Previously amended) The wireless network of claim 60 wherein the upstream or downstream transceiver operates at any given time interval.

65. (Previously presented) The wireless network of claim 60 wherein the destination device comprises a media receiver connected to a display device.

66. (Previously presented) The wireless network of claim 60 wherein each of the transceivers includes a transmitter and a receiver.

67. (Previously presented) The wireless network of claim 60 wherein each of the repeaters is configurable to operate in a bi-directional manner.

68. (Previously presented) The wireless network of claim 66 wherein the transmitter and the receiver of each of the transceivers are frequency programmable.

69. (Previously amended) The wireless network of claim 60 wherein the first frequency channel is within either a 5GHz or a 2.4GHz frequency band.